

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation
of the mixture : IPA SOLVENT
Aerosol

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Cleaners - Precision

1.3. Details of the supplier of the safety data sheet

Premier Farnell
150 Armley Road
Leeds LS12 2QQ
Tel. : +44 (0) 870 129 8608

1.4. Emergency telephone number

+44 (0) 870 202530

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Aerosols	Category 1	H222 - Extremely flammable aerosol. H229 - Pressurized container: May burst if heated.
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Health hazards

Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains : Propan-2-ol; Isopropyl alcohol; Isopropanol

Hazard pictogram(s) :  

Signal word : Danger

Hazard statement(s) : H222 : Extremely flammable aerosol.
H229 : Pressurised container: May burst if heated.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.

Precautionary statements

Prevention : P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing mist/vapours.
P271 Use only outdoors or in a well-ventilated area.

Response	: Not assigned.
Storage	: P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	: None

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No	Index No.	Notes
Propan-2-ol; Isopropyl alcohol; Isopropanol	60 - 100	67-63-0 200-661-7	01-2119457558-25	603-117-00-0	#
Classification: Flam. Liq. 2; H225, Eye Irrit. 2; H319, STOT SE 3;H336					
Carbon dioxide	1 - 5	124-38-9 204-696-9	-	-	#
Classification: Press. Gas;H280					

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments : The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information : Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.
Skin contact	: Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	: In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards : Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam. Powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media : Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Contents under pressure. Pressurised container may explode when exposed to heat or flame.

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire fighting procedures : Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods : Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders : Keep unnecessary personnel away. Avoid breathing mist/vapours. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. This product is miscible in water. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist/vapours. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in tightly closed container.

Store away from incompatible materials (see Section 10 of the SDS).

Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	27400 mg/m ³
		15000 ppm
	TWA	9150 mg/m ³
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1250 mg/m ³
	TWA	500 ppm
		999 mg/m ³
		400 ppm

Biological limit values : No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures : Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General population

Components	Value	Assessment factor	Notes
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)			
Long-term, Systemic, Dermal	319 mg/kg bw/day	2	Repeated dose toxicity
Long-term, Systemic, Inhalation	89 mg/m ³	2	Repeated dose toxicity
Long-term, Systemic, Oral	26 mg/kg bw/day	2	Repeated dose toxicity

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Workers

Components	Value	Assessment factor	Notes
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)			
Long-term, Systemic, Dermal	888 mg/kg bw/day	1	
Long-term, Systemic, Inhalation	500 mg/m3	1	

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)			
Freshwater	140.9 mg/l	1	
Secondary poisoning	160 mg/kg	30	Oral
Sediment (freshwater)	552 mg/kg		
Soil	28 mg/kg		

8.2. Exposure controls

Appropriate engineering controls	: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.
Individual protection measures, such as personal protective equipment	
General information	: Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	: Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.
Skin protection	
- Hand protection	: When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Neoprene gloves are recommended. Suitable gloves can be recommended by the glove supplier.
- Other	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapour cartridge and full facepiece. (Filter type A)
Thermal hazards	: Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	: When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Form	: Aerosol.
Colour	: Colourless.
Odour	: Alcohol.
Odour threshold	: Not available.
pH	: Not applicable.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: 82°C (179.6°F)
Flash point	: 12.0°C (53.6°F) Open cup
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	: 1.8%
Explosive limit – upper (%)	: 12%
Vapour pressure	: 4.2 kPa
Vapour pressure temp.	: 20°C (68°F)
Vapour density	: Not available.
Relative density	: 0.79 g/cm ³ 20°C
Solubility(ies)	
Solubility (water)	: Soluble in water
Partition coefficient (n-octanol/water)	: Not available.
Auto-ignition temperature	: 460°C (860°F)
Decomposition temperature	: Not available.
Viscosity	: Not available.
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.

9.2. Other information

VOC	: 794 g/l
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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Material is stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials

Acids. Strong oxidising agents. Chlorine. Isocyanates.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

General information : Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation : May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact : Based on available data, the classification criteria are not met.

Eye contact : Causes serious eye irritation.

Ingestion : May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms : May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

11.1. Information on toxicological effects

Acute toxicity : Based on available data, the classification criteria are not met.

Components	Species	Test Results
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)		
Acute		
Inhalation		
LC50	Rat	> 25000 mg/m3, 6 h
Skin corrosion/irritation	: Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	: Causes serious eye irritation.	
Respiratory sensitisation	: Based on available data, the classification criteria are not met.	
Skin sensitisation	: Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.	
Carcinogenicity	: Based on available data, the classification criteria are not met.	
Reproductive toxicity	: Based on available data, the classification criteria are not met.	
Specific target organ toxicity - single exposure	: May cause drowsiness or dizziness.	
Specific target organ toxicity - repeated exposure	: Based on available data, the classification criteria are not met.	
Aspiration hazard	: Based on available data, the classification criteria are not met.	
Mixture versus substance information	: Not available.	

SECTION 12: Ecological information

12.1. Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)		
Aquatic		
Acute		
Crustacea	LC50	Brine shrimp (Artemia salina) > 10000 mg/l, 24 hours
Fish	LC50	Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours

12.2. Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log K_{ow})

Propan-2-ol; Isopropyl alcohol; Isopropanol : 0.05

Bioconcentration factor (BCF) : Not available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation potential.

GWP: 0

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
EU waste code	: The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/ container in accordance with local/regional/national/international regulations.
Special precautions	: Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number

UN1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

Class	: 2.1
Subsidiary risk	: -
Hazard No. (ADR)	: Not assigned.
Tunnel restriction code	: D
ADR/RID - Classification code	: 5F

14.4. Packing group

Not applicable

14.5. Environmental hazards

No

14.6. Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number

UN1950

14.2. UN proper shipping name

AEROSOLS, flammable

14.3. Transport hazard class(es)

Class : 2.1

Subsidiary risk : -

Label(s) : 2.1

14.4. Packing group

Not assigned.

14.5. Environmental hazards

No.

14.6. Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number

UN1950

14.2. UN proper shipping name

AEROSOLS, flammable

14.3. Transport hazard class(es)

Class : 2.1

Subsidiary risk : -

Label(s) : 2.1

14.4. Packing group

Not assigned.

14.5. Environmental hazards

No.

14.6. Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number

UN1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

Class : 2.1

Subsidiary risk : -

14.4. Packing group

Not applicable

14.5. Environmental hazards

No

14.6. Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

IMDG

14.1. UN number

UN1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

Class : 2.1

Subsidiary risk : -

14.4. Packing group

Not applicable

14.5. Environmental hazards

Marine pollutant : No

EmS : F-D,S-U

14.6. Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

ADN; ADR; IATA; IMDG; RID



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Retained direct EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended
Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended
Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended
Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended
Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Carbon dioxide (CAS 124-38-9)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

Other regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

CAS: Chemical Abstract Service.

Ceiling: Short Term Exposure Limit Ceiling value.

CEN: European Committee for Standardization.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

GWP: Global Warming Potential.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).

RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.

TLV: Threshold Limit Value.

TWA: Time Weighted Average.

VOC: Volatile organic compounds.

vPvB: Very persistent and very bioaccumulative.

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STEL: Short-term Exposure Limit.

References : Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Part Number

PPC103

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